

### **ABSTRACT**

A superconducting rotor assembly includes an axial shaft and a winding support structure. A torque tube is connected to this winding support structure. An interconnection assembly mechanically couples the torque tube to the axial shaft. This interconnection  
5 assembly is configured to convert a torsional torque load experienced by the torque tube to a tangential torque load which is provided to the axial shaft.

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